



#9

## SEQUENCE LISTING

<110> MIYAWAKI, Atsushi  
NAGAI, Takeharu

<120> A Fluorescent Protein

<130> P22042

<140> US 10/086,738

<141> 2002-03-04

<150> PCT/JP05/98922001

<151> 2001-03-05

<160> 5

<170> PatentIn version 3.0

<210> 1

<211> 1278

<212> DNA

<213> Artificial

<220>

<223> Construct from several species

<400> 1  
atgaagaggc gctggaagaa aaacttcatt gccgtcagcg ctgccaaccg gttcaagaag 60  
atctccagct ccggggcact ggggtctgca ggctacaaca gccacaacgt ctatatcatg 120  
gccgacaagc agaagaacgg catcaaggcc aacttcaaga tccgccacaa catcgaggac 180  
ggcggcggtgc agctcgccga ccactaccag cagaacaccc ccatcggcga cggccccgtg 240  
ctgctgccccg acaaccacta cctgagccac cagtccgccc tgagcaaaga cccaacgag 300  
aagcgcgata acatgggcct gctggagttc gtgaccgccc cggggatcac tctcggcattg 360  
gacgagctgt acaaggggtgg cagcgggtggc atggtgagca agggcgagga gctgttcacc 420  
gggggtgggtgc ccatcctggt cgagctggac ggcgacgtaa acggccacaa gttcagcgtg 480  
tccggcgagg gcgagggcga tgccacctac ggcaagctga ccctgaagtt catctgcacc 540  
accggcaagc tgcccgtgcc ctggcccacc ctcgtgacca ccttcggcta cggcctgaag 600

```

tgcttcgccc gctaccccca ccacatgaag cagcagcact tcttcaagtc cgccatgccc 660
gaaggctacg tccaggagcg caccatcttc ttcaaggacg acggcaacta caagacccgc 720
gccgaggtga agttcgaggg cgacaccctg gtgaaccgca tcgagctgaa gggcatcgac 780
ttcaaggagg acggcaacat cctggggcac aagctggagt acaacggtac cggggaccaa 840
ctgacagaag agcagattgc agagttcaaa gaagccttct cattattcga caaggatggg 900
gacggcacca tcaccacaaa ggaacttggc accgttatga ggtcgcttgg acaaaaccca 960
acggaagcag aattgcagga tatgatcaat gaagtcgatg ctgatggcaa tggaacgatt 1020
tactttcctg aatttcttac tatgatggct agaaaaatga aggacacaga cagcgaagag 1080
gaaatccgag aagcattccg tgtttttgac aaggatggga acggctacat cagcgctgct 1140
cagttacgtc acgtcatgac aaacctcggg gagaagttaa cagatgaaga agttgatgaa 1200
atgataaggg aagcagatat cgatggtgat ggccaagtaa actatgaaga gtttgtacaa 1260
atgatgacag caaagtaa 1278

```

```

<210> 2
<211> 1284
<212> DNA
<213> Artificial

```

```

<220>
<223> Construct from several species

```

```

<400> 2
atgaagaggc gctggaagaa aaacttcatt gccgtcagcg ctgccaaccg gttcaagaag 60
atctccagct ccggggcact ggggtctgca ggctacaaca gcgacaacgt ctatatcatg 120
gccgacaagc agaagaacgg catcaaggcc aacttcaaga tccgccacaa catcgaggac 180
ggcggcggtg agctcgccga ccactaccag cagaacaccc ccatcggcga cggccccgtg 240
ctgctgcccc acaaccacta cctgagcttc cagtccgccc tgagcaaaga cccaacgag 300
aagcgcgatc acatggtcct gctggagttc gtgaccgccg ccgggatcac tctcggcatt 360
gacgagctgt acaaggtcga cgggtggcagc ggtggcaccg gtgtgagcaa gggcgaggag 420

```

```

ctgttcaccg ggggtggtgcc catcctgggc gagctggacg gcgacgtaaa cggccacaag 480
ttcagcgtgt ccggcgaggg cgagggcgat gccacctacg gcaagctgac cctgaagctc 540
atctgcacca ccggcaagct gcccggtgcc tggcccaccc tcgtgaccac cttcgggtac 600
ggcctgaagt gtttcgcccg ctacccccgac cacatgaagc agcacgactt cttcaagtcc 660
gccatgcccg aaggctacgt ccaggagcgc accatcttct tcaaggacga cggcaactac 720
aagaccgcg ccgaggtgaa gttcgagggc gacaccctgg tgaaccgcat cgagctgaag 780
ggcatcgact tcaaggagga cggcaacatc ctggggcaca agctggagta caacggtacc 840
gaccaactga cagaagagca gattgcagag ttcaaagaag ctttctcatt attcgacaag 900
gatggggacg gcaccatcac cacaaggaa cttggcaccg ttatgaggtc gcttggacaa 960
aaccaacgg aagcagaatt gcaggatatg atcaatgaag tcgatgctga tggcaatgga 1020
acgatttact ttctgaatt tcttactatg atggctagaa aaatgaagga cacagacagc 1080
gaagaggaaa tccgagaagc attccgtgtt tttgacaagg atgggaacgg ctacatcagc 1140
gctgctcagt tacgtcacgt catgacaaac ctcggggaga agttaacaga tgaagaagtt 1200
gatgaaatga taagggaagc agatatcgat ggtgatggcc aagtaaacta tgaagagttt 1260
gtacaaatga tgacagcaaa gtaa 1284

```

```

<210> 3
<211> 1284
<212> DNA
<213> Artificial

```

```

<220>
<223> Construct from several species

```

```

<400> 3
atgaagaggc gctggaagaa aaacttcatt gccgtcagcg ctgccaacgg gttcaagaag 60
atctccagct ccgggggact ggggtctgca ggctacaaca gcgacaacgt ctatatcatg 120
gccgacaagc agaagaacgg catcaaggcc aacttcaaga tccgccacaa catcgaggac 180
ggcggcgtgc agctcgccga ccactaccag cagaacaccc ccatcggcga cggccccgtg 240

```

```

ctgctgcccc acaaccacta cctgagcttc cagtccgccc tgagcaaaga cccaacgag      300
aagcgcgata acatgggtcct gctggagttc gtgaccgccc ccgggatcac tctcggcatg      360
gacgagctgt acaagggtcga cgggtggcagc ggtggcaccg gtgtgagcaa gggcgaggag      420
ctgttcaccg ggggtgggtgcc catcctggtc gagctggacg gcgacgtaaa cggccacaag      480
ttcagcgtgt ccggcgaggg cgagggcgat gccacctacg gcaagctgac cctgaagctc      540
atctgcacca ccggcaagct gcccgtgccc tggcccaccc tcgtgaccac cttcggctac      600
ggcctgaagt gcttcgcccc ctacccccgac cacatgaagc agcacgactt cttcaagtcc      660
gccatgcccc aaggctacgt ccaggagcgc accatcttct tcaaggacga cggcaactac      720
aagacccgcg ccgaggtgaa gttcgagggc gacaccctgg tgaaccgcat cgagctgaag      780
ggcatcgact tcaaggagga cggcaacatc ctggggcaca agctggagta caacggtacc      840
gaccaactga cagaagagca gattgcagag ttcaaagaag ctttctcatt attcgacaag      900
gatggggacg gcaccatcac cacaaggaa cttggcaccg ttatgaggtc gcttggacaa      960
aaccaacgg aagcagaatt gcaggatatg atcaatgaag tcgatgctga tggcaatgga     1020
acgatttact ttctgaatt tcttactatg atggctagaa aaatgaagga cacagacagc     1080
gaagaggaaa tccgagaagc attccgtgtt tttgacaagg atgggaacgg ctacatcagc     1140
gctgctcagt tacgtcacgt catgacaaac ctcggggaga agttaacaga tgaagaagtt     1200
gatgaaatga taagggaagc agatatcgat ggtgatggcc aagtaaacta tgaagagttt     1260
gtacaaatga tgacagcaaa gtaa                                             1284

```

```

<210> 4
<211> 5
<212> PRT
<213> Artificial

```

```

<220>
<223> Linker Peptide

```

```

<400> 4

```

```

Gly Gly Ser Gly Gly

```

1 . 5

<210> 5

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Linker Peptide

<400> 5

Val Asp Gly Gly Ser Gly Gly Thr Gly  
1 5